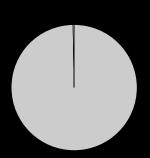
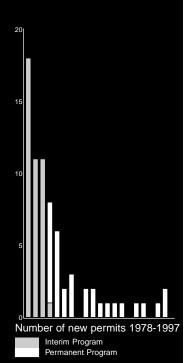
Kansas



Production tonnage 1978-1997

U.S. Total Kansas coal production



The first and largest mid-west coal producer

The coal-bearing areas of Kansas cover approximately 18,800 square miles (23 percent of the state's total area). Kansas reserves are estimated to be approximately 0.2 percent of U.S. reserves. Coal beds generally occur in thin seams up to five feet thick.

The first coal mining recorded in Kansas was in 1853 along the Missouri River near Fort Leavenworth. Beginning in 1872, Kansas had some of the country's earliest surface mining. However, the increasingly higher stripping ratio and high sulfur content of the coal have led to sharp declines in Kansas coal production in recent years, and currently there are only two active coal mining operations.

The Kansas regulatory program was approved April 14, 1982; the Abandoned Mine Land Program was approved February 1, 1982, and the emergency Abandoned Mine Land program authority was approved January 10, 1989.

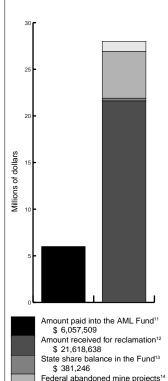
Kansas has the third largest number of emergencies of all coal-producing states and Indian reservations. Since 1977, the state has averaged about 40 emergencies a year, with 1994 being the record year with 84. (In 1994, Kentucky also had a record number of emergencies.) The Office of Surface Mining and the state have spent almost \$5 million abating emergencies in the 20-year period since passage of the Surface Mining Law. Most Kansas emergency projects are unpredictable subsidences, often in densely populated areas.

At a cost of more than \$13 million, the state has completed all priority 1 and a large percent of prority 2 Abandoned Mine Land problems. These were mostly dangerous high wall and subsidence problems. Kansas also has an active Rural Abandoned Mine Land Reclamation Program that has spent over \$1 million to reclaim over 400 acres of problems.

Kansas has an inventory of over \$68 million priority 2 and almost \$26 million priority 3 problems remaining. This includes over \$53 million in dangerous subsidence projects, including \$14 million for stabilization beneath the town of Pittsburg. As a minimum program state, Kansas receives only \$1.5 million annually to complete abandoned mine land reclamation.

coal production¹⁰

	19	978	19		
		Percent		Percent	1978-1997
	Amount	U.S. Total	Amount	U.S. Total	Rank
Tons Produced					
Surface	907,069	0.3%	268,070	0.04%	22
Underground	0	0%	0	0%	0
Lignite	0	0%	0	0%	0
Total	907,069	0.2%	268,070	0.02%	26
Number of Producing I Surface (bituminous coa Underground		0.3% 0% 0%	4 0 0	0.1% 0% 0%	18 0 0
Lignite (surface) Total	12	0.2%	4	0.09%	21
Mine Decidentine					
Mine Production					
Average	75,589	106.3%	67,017	25.4%	
	75,589 0	106.3% 0%	67,017 0	25.4% 0%	
Average	0		•		



\$ 5.094.172

\$ 1.170.359

RAMP abandoned mine projects¹⁵

Active mining and reclamation¹⁶ 1978 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 Total Number of New Permits Surface Mining **Underground Mining** Other Acreage Permitted Surface Mining 889 1,103 844 2,434 3,039 0 1,053 0 1,528 229 15,881 **Underground Mining** Other 229 1,137 Acreage of Bond Release Interim Prog. (final) 271 2,775 76 714 277 0 5,043 Phase 1 35 1,863 2,293 1,314 3,532 9,083 Phase 2 0 570 1,329 24 4,875 6,416 Phase 3 Inspections Complete* NA NA 1NA NA NA 806 320 62 3.221 Partial NA NA NA NA NA 750 1,178 5,676

0 0

1 15

0 0

10 13 28

0 0 15

0 99 67

Oversight

Citations Issued

NOV's

CO's

Abandoned coal mine reclamation 1977-1997¹⁷

63 29

6 1

61 NA

50 22

5 12

1 0

0 0 1

5 8 7 4

0 7 7

7 7

8 7

6 260

	F	Reclaimed Problems	Remaining Problems		
	OSM Emergency	State Emergency	Non-Emergency	Number	Estimated Cost
Priority 1 & 2 (Protection of Public Health, Safe	ety, and General We	lfare) and Emergenc	y Projects		
Clogged Streams (miles)	0	0	1.6	2.2	\$ 108,887
Clogged Stream Lands (acres)	0	0	8.5	14.0	341,000
Highwalls (feet)	10.0	0	102,990.0	88.352.0	3,483,008
Impoundments (count)	0	0	1.0	1.0	16,000
Piles & Embankments (acres)	0	0	233.7	243.0	8,927,889
Slides (acres)	0.2	0	1.0	0	0
Gases (count)	0	0	0	2.0	5,001
Equipment & Facilities (count)	0	0	2.0	33.0	58,000
Water Bodies (count)	0	0	2.0	8.0	586,400
Industrial Waste (acres)	0	0	17.3	22.0	7,259
Portals (count)	0	0	0	0	0
Polluted Water: Agriculture & Industrial (count) 0	0	3.0	11.0	639,289
Polluted Water: Human Consumption (count)	0	0	0	2.0	262,500
Subsidence (acres)	31.3	11.2	16.2	1,082.7	53,576,950
Surface Burning (acres)	0.1	4.0	0	0	0
Underground Mine Fires (acres)	0	0	0	0	0
Vertical Openings (count)	12.0	279.0	26.0	300.0	638,189
Total					\$ 68,650,372
Priority 3 (Environmental Restoration)					
Bench (acres)	0	0	0	0	\$ 0
Industrial Waste (acres)	0	0	0	3.0	3,001
Equipment & Facilities (count)	0	0	1.0	65.0	224,500
Gob (acres)	0	0	94.0	205.5	1,407,596
Highwall (feet)	0	0	5,900.0	7,190.0	901,500
Haul Road (acres)	0	0	0	29.0	134,170
Mine Opening (count)	0	0	0	8.0	24,000
Pit (acres)	0	0	23.4	147.4	1,428,185
Spoil Area (acres)	0	0	321.5	4,741.6	16,294,158
Slurry (acres)	0	0	10.0	8.0	56,000
Slump (acres)	0	0	0	344.0	5,313,002
Water (gallons/minute)	0	0	0	51.5	175,700
Total					\$ 25,961,812

^{*} Only total inspections available for 1978-1981